

# Metallized

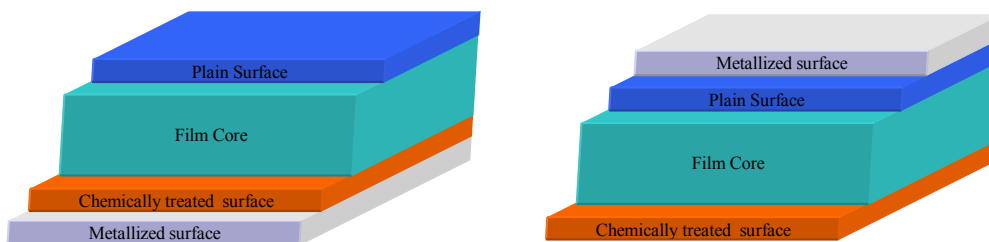
## PKSM

Data Sheet (December 2005)



### Product description

Nuroll PKSM is a bi-axially oriented polyester (BOPET) film with one side metallized, designed for flexible packaging and for those applications where an excellent adhesion of inks, adhesive or metal is required. PKSM film is suitable only for dry and frozen applications. PKSM film also offers excellent barrier



The chemically treated surface is available for metallization or for printing depending on which of them is more critical for the final application. Customers should indicate on the order which side needs to be metallized.

### Main Applications

High barrier flexible packages for: coffee, dehydrated food, frozen food, lidding, snacks.

### Recommendations

**-Unprotected metallized side must be not in contact with foods**

**-PKSM is not suitable for applications where thermal process and contact with water is required.**

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### Technical details

Nuroll PKSM is usually supplied with following characteristics:

- **Core diameter:** 6 inches (152.76 mm)
- **Film width:** min 330 mm, max 2400mm
- **Film length:** 12000 m, 24000 m
- **Max reel weight:** 1000 kg
- **Packing presentation:** suspended reel; wooden endboards, lid and pallet; stretchable PE film

**Different characteristics than the above on request**

### Storage conditions

Nuroll PKSM need to be stocked in a close warehouse and preserved from the light and from the humidity.

Reels must be not stacked

Nuroll will not accept any responsibility for material older than 1 year from the delivering

### Compliance with regulations

**Polyester Film produced by Nuroll SpA, complies with EEC, Italian and FDA requirements on packaging for direct contact with foodstuffs**

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### Typical Properties

Properties		Unit	Test Method	Typical values
Thickness		Microns	ASTM E 252	12
Optical Density *		O.D.	Gilex (Macbeth)	2,2 / 2,4
Area Yield		m <sup>2</sup> /kg	ASTM E 252	59,2
Tensile strength	MD	N/mm <sup>2</sup>	ASTM D 882	220
	TD			250
Elongation at Break	MD	%	ASTM D 882	130
	TD			110
Thermal Shrinkage 150°C -30'	MD	%	ASTM 1204	1,3
	TD			0,8
C.O.F		Film/Film	ASTM D1894	0,4
MVTR (38°C, 90%RH)		g/m <sup>2</sup> *day	ASTM E398	0,5
OTR (20°C, 0%RH)		cc/m <sup>2</sup> *day	ASTM D3985	1

#### \*Others optical density on request

1. This information is the best currently available on product and it is subject to revision as additional knowledge and experience is gained.
2. The results obtained and the above properties refer to average value of laboratory tests. Therefore, such results have only to be considered as an indicative general guide to material properties and not as an implied guarantee that the product actually has said properties and/or a warranty of fitness for a particular purposes and/or suggestion for infringement of any existing patents.
3. Due to many factors which may affect customer production process, including but not limited by different equipments and techniques used, PKSM film must be qualified before being used in any application.